

Practice

For use with pages 171–176

Write all the factors of the number.

- 1.** 28 **2.** 34 **3.** 44

- 4.** 46 **5.** 59 **6.** 65

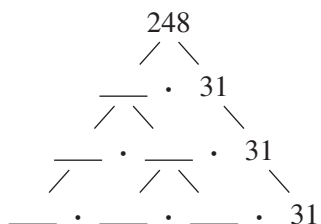
Tell whether the number is *prime* or *composite*.

- 7.** 97 **8.** 127 **9.** 111

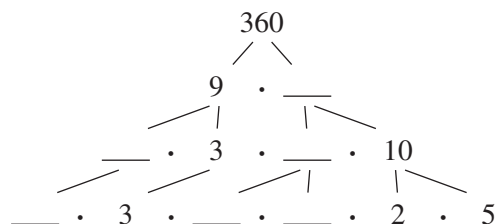
- 10.** 99 **11.** 133 **12.** 149

Complete the factor tree. Then write the prime factorization of the number.

13.



14.



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Write the prime factorization of the number.

15. 56

16. 69

17. 57

18. 77

19. 91

20. 85

21. 93

22. 114

23. 108

Factor the monomial.

24. $16x^2y$

25. $32b^5c^4$

26. $17r^2s^3$

27. $24z^2$

28. $40g^3h$

29. $57cd^4$

- 30.** Exercise 14 shows a factor tree for 360. Make another factor tree for 360, without using 9 as a factor in the first part of the tree. Compare the results of the trees.
- 31.** You are arranging 70 plants in a rectangular garden with the same number of plants in each row. How many ways can you arrange the garden?
- 32.** A dog kennel groups the dogs in order to determine at what time they will be given a treat. Each group should have the same number of dogs. There are 120 dogs in the kennel. How many groups are possible?